CPC COOPERATIVE PATENT CLASSIFICATION

F25C PRODUCTION, WORKING, STORING OR DISTRIBUTION OF ICE (frozen

sweets, including ice-cream, their production A23G 9/00; concentrating solutions by removing frozen solvents B01D 9/04; purification of water by freezing C02F 1/22; refrigeration machines, plants or systems F25B; solidification of gases or gaseous mixtures F25J; freeze drying F26B)

NOTE

Within the subclass, the term "ice" means any frozen liquid and is to be understood as also covering frozen semi-liquids or pasty substances.

Guide heading:

F25C 1/00	Production of ice (<u>F25C 3/00</u> takes precedence)
F25C 1/02	Production of natural ice, i.e. without refrigeration
F25C 1/04	. by using stationary moulds
F25C 1/045	{with the open end pointing downwards }
F25C 1/06	open or openable at both ends
F25C 1/08	. by immersing freezing chambers or plates into water
F25C 1/10	by using rotating or otherwise moving moulds (<u>F25C 1/08</u> takes precedence)
F25C 1/12	. by freezing water on cooled surfaces, e.g. to form slabs
F25C 1/125	{on flexible surfaces }
F25C 1/14	to form thin sheets which are removed by scraping or wedging
F25C 1/142	{from the outer wall of a cooled body }
F25C 1/145	{from the inner wall of a cooled body }
F25C 1/147	<pre>{by using augers }</pre>
F25C 1/16	by partially evaporating water in a vacuum
F25C 1/18	. of a particular transparency or translucency, e.g. by injecting air
F25C 1/20	by agitation
F25C 1/22	Construction of moulds Filling devices therefor (metering by volume in general G01F)
F25C 1/225	{Filling devices for moulds }
F25C 1/24	for refrigerators, e.g. freezing trays
F25C 1/243	{of plastic materials }
F25C 1/246	{with separate grid structure }

F25C 3/00	Methods or apparatus specially adapted for the production of ice or snow for winter sports or similar recreational purposes, e.g. for sporting installations Production of artificial snow (foundations or pavings for artificial surfaces for outdoor or indoor practice of snow or ice sports <u>E01C 13/10</u> ; working on surfaces of snow or ice in order to make them suitable for traffic or sporting purposes <u>E01H 4/00</u>)
F25C 3/02	• for ice rinks (shape of rinks <u>A63C 19/10</u> ; construction of rinks <u>E01C</u>)
F25C 3/04	. for sledging or ski trails Production of artificial snow (shape of trails <u>A63C 19/10;</u> construction of trails <u>E01C</u>)
F25C 5/00	Working, storing or distribution of ice
F25C 5/002	. {Distributing ice }
F25C 5/005	{particularly adapted for household refrigerators }
F25C 5/007	{for storing bins (ice bins in general <u>F25C 5/182</u>) }
F25C 5/02	. Tools or machines for disintegrating, removing or harvesting ice
F25C 5/04	without the use of saws
F25C 5/043	<pre>{Tools, e.g. ice picks, ice crushers, ice shavers }</pre>
F25C 5/046	{Ice-crusher machines }
F25C 5/06	by deforming bodies with which the ice is in contact, e.g. by inflatable members
F25C 5/08	by heating bodies in contact with the ice
F25C 5/10	using hot refrigerant using fluid heated by refrigerant
F25C 5/12	Ice-shaving machines
F25C 5/14	. Tools or machines for shaping or finishing ice pieces, e.g. ice presses
F25C 5/16	. Tools or devices for ice handling not covered by any other subclass
F25C 5/18	. Storing ice
F25C 5/182	{Ice bins (distributing arrangements therefor <u>F25C 5/007</u>) }
F25C 5/185	{combined with freezing trays }
F25C 5/187	{combined with ice level sensing means }
Guide heading:	
F25C 2300/00	Special arrangements or features for production, working, storing or distribution of ice
Guide heading:	
F25C 2301/00	Special arrangements or features for the production of ice

F25C 2301/002	. Production of ice slurries
F25C 2303/00	Special arrangements or features for the production of ice or snow for winter sports or similar recreational purposes, e.g. for sporting installations Special arrangements or features for the production of artificial snow
F25C 2303/042	. Snow making by using solid ice, e.g. ice crushing
F25C 2303/044	. Snow making using additional features, e.g. additives, liquid gas
F25C 2303/046	. Snow making by using low pressure air ventilators, e.g. fan type snow canons
F25C 2303/048	. Snow making by using means for spraying water
F25C 2303/0481	with the use of compressed air
F25C 2305/00	Special arrangements or features for working or distributing ice
F25C 2305/022	. Harvesting of ice including rotating or tilting or pivoting of a mould or tray
F25C 2400/00	Auxiliary features or devices for production, working, storing or distribution of ice
F25C 2400/02	. Freezing surface state
F25C 2400/04	. Ice guide, e.g. for guiding ice blocks to storage tank
F25C 2400/06	. Multiple ice moulds or trays therefor
F25C 2400/08	. for different type of ice
F25C 2400/10	. Refrigerator units
F25C 2400/12	. Means for sanitation
F25C 2400/14	. Water supply
F25C 2500/00	Problems to be solved
F25C 2500/02	. Geometry problems
F25C 2500/04	. Calculation of parameters
F25C 2500/06	. Spillage or flooding of water
F25C 2500/08	. Sticking or clogging of ice
F25C 2600/00	Control issues

F25C 2600/02 Timing F25C 2600/04 Control means F25C 2700/00 Sensing or detecting of parameters Sensors therefor . Level of ice F25C 2700/02 F25C 2700/04 . Level of water F25C 2700/06 . Rotation angle of the ejector ejecting ice from a stationary mould F25C 2700/08 Power to drive the auger motor of an auger type ice making machine F25C 2700/10 Rotating speed of the auger motor of an auger type ice making machine . Temperature of ice trays F25C 2700/12 F25C 2700/14 . Temperature of water